

Laboratory	Central Forensic Science Laboratory, Central Bureau of Investigation, Block-4, CGO Complex, Lodhi Road, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Forensic Testing	Issue Date	19.05.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Bullets/ pellets/ parts thereof	To find out the Caliber of bullet/ Size of pellet a- Measurement of Physical Parameter. b- Physical Characteristics Matching of Projectiles	As per Working Procedure Manual for Ballistics Doc. No. CFSL-CBI-N.D.-BALL, Issue No. 1 based upon DFS Manual	NA
		To find out Class and Individual Characteristics of rifling/striations marks on projectiles a- Examination of land and grooves/ striations under stereo and comparison microscope.	As per Working Procedure Manual for Ballistics Doc. No. CFSL-CBI-N.D.-BALL, Issue No. 1 based upon DFS Manual	NA
4.	Wads/ Parts Thereof	Bore/type of Wad. a- Measurement of physical parameters. b- In consultation with literature available.	As per Working Procedure Manual for Ballistics Doc. No. CFSL-CBI-N.D.-BALL, Issue No. 1 based upon DFS Manual	NA
5.	Cloth/ targets/ parts thereof	Examination of Holes/ tears on clothes and Targets. a- Measurement of Physical Parameters, b- Examination under high power lens and stereo Microscope.	As per Working Procedure Manual for Ballistics Doc. No. CFSL-CBI-N.D.-BALL, Issue No. 1 based upon DFS Manual	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Examination and Analysis of gun shot discharge Residues. a- Examination under stereo microscope. b- Colour/ chemical tests.		1 µg/ml
		Determination of Range, Direction & Angle of Firing. a- Examination Under stereo Microscope b- Comparison With the Standard pattern Available in Literature. c- By simulated Experimentation	As per Working Procedure Manual for Ballistics Doc. No. CFSL-CBI-N.D.-BALL, Issue No. 1 based upon DFS Manual	NA
II.	EXPLOSIVES			
1.	Low explosive Identification of low explosive material/ low explosion remnants etc.	a. Chemical Color test specific for individual cations / anions as per SOP	As per Working procedure manual for explosive CFSL-CBI- N.D.-BALL issue No. 1 based on DFS manual	
2.	Low explosive Identification of pyro-technique materials	a- Chemical Colour test specific for individual cations / anions as per SOP	As per Working procedure manual for explosive CFSL-CBI- N.D.-BALL issue No. 1 based on DFS manual	

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3.	High explosive Identification of high explosive material/ high explosion remnants/ I.E.Ds/ part of I.E.Ds etc.	Detection of explosives and ingredients by using any of the following method (s) a) Spot test b) TLC c) GC d) HPLC	As per Working procedure manual for explosive CFSL-CBI- N.D.-BALL issue No. 1 based on DFS manual	TLC 1µg/ml HPLC 0.1 µg /ml
III. BIOLOGY				
Biology Division				
A. DETECTION OF BODY FLUID STAINS				
1.	Suspected Blood/ Blood stained material	Detection of Blood	Test for properties of Haeme molecules in Blood. Chemical Colour Test as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {1.1.2 (i) & 1.1.3 (i) pg: 9 & 11}	Qualitative
2.	Suspected Semen/ Semen stained material	Detection of Semen	Test for detection of enzyme & sperm identification in Semen as per Working Procedure Manual on Forensic Biology, CFSL-CBI- ND-BIO-42 {3.0.0 (i) pg: 47 & 48}	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Suspected Saliva/ saliva stained material	Detection of Saliva	Test for Presence of α -amylase in Saliva as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {3.2.1 (ii) pg: 58}	Qualitative
4.	Suspected Urine/ urine stained material	Detection of urine	Gee's Test for Presence of Urea in Urine as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {3.4..2 (i) pg: 61}	Qualitative
5.	Suspected Vomit/ vomit stains	Detection of Vomit	Gunzberg's Test for Presence of free HCl as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {3.3.2 (i) pg: 60}	Qualitative
6.	Suspected Faecal Matter	Detection of Faecal matter	Edelman's Test for Bilirubin Test as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {3.5.3 (i) pg:64}	Qualitative
B.	ANATOMICAL & MORPHOLOGICAL EXAMINATION OF BIOLOGICAL EXHIBITS			
1.	Suspected Hair	Anatomical study of Hair	Morphology & Microscopy examinations for Identification of Human hair as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {2.2.9 (ii) pg: 58}	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Suspected Fibres	Anatomical study of Fibres	Morphology, Microscopy examination for Vegetable Fibres Comparisons as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {2.3.1 pg: 24-45}	Qualitative
3.	Suspected Wood	Anatomical study of wood	Morphological & Histochemical Features examination by Microscopy for Family Identification as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {10.0.0 pg: 213-219}	Qualitative
4.	Burnt Bones/ Skeletal Remains	Study of Bones	Study of Anatomical Morphometric Features & Superimposition techniques for Species of Origin, Sex & Age Determination /Identification of Skull as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {5.0.0 pg: 75-133}	Qualitative
5.	Suspected Diatoms	Detection of Diatoms	Microscopic examination for Identification of Diatoms & Comparison as per Working Procedure Manual on Forensic Biology, CFSL-CBI-ND-BIO-42 {4.0.0 pg: 71-73}	Qualitative

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C. DNA PROFILING OF BIOLOGICAL SAMPLES				
1.	Any Biological sample / material of Human in origin	Individualization/ Comparison Establishment of relatedness	Autosomal STR Typing Y- STR Typing & Mitochondrial Sequencing as per Working Procedure Manual on Forensic DNA Profiling, CFSL- CBI-ND-BIO-50.	Qualitative
2.	Blood or Blood Stains	Gel Diffusion Method	Working Procedure Manual on Forensic Serology, CFSL-CBI- ND-SERO-51{3.1-3.3 pg: 5-6 }	Qualitative
3.	Tissue	Gel-Diffusion Method	Working Procedure Manual on Forensic Serology, CFSL-CBI- ND-SERO-51{3.1-3.3 pg: 5-6 }	Qualitative
IV. FORENSIC ELECTRONIC INVESTIGATION				
Computer Forensic Division				
1.	Cloning/ Imaging of Hard Disc Drive (HDD) of Computer	Bit to Bit imaging using hardware i.e. DIBS RAID.	Working Procedure Manual Computer Forensic Division Document No. CFSL-CBI-ND- CFD, Issue No. 01 Page No. 09.	Not Applicable
2.	Examination of Hard Disc Drive (HDD) of Computer	Recovery of live/ deleted files, folders, data in unallocated cluster/slack space etc. using Forensic Software	Working Procedure Manual Computer Forensic Division Document No. CFSL-CBI-ND- CFD, Issue No. 01 Page No. 09 & 10.	Not Applicable

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	External Storage Devices (CD, DVD, Floppy, Memory cards etc.)	Recovery of live/ deleted files, folders, data in unallocated cluster/slack space etc. using Forensic Software	Working Procedure Manual Computer Forensic Division Document No. CFSL-CBI-ND- CFD, Issue No. 01 Page No. 09 & 10.	Not Applicable
4.	Devices with USB connectivity i.e. Pen drive/Flash drive/Thumb drive etc.	Recovery of live/ deleted files, folders, data in unallocated cluster/slack space etc. using Forensic Software	Working Procedure Manual Computer Forensic Division Document No. CFSL-CBI-ND- CFD, Issue No. 01 Page No. 10.	Not Applicable
5.	Photography & Videography	a) Provide opinion on Photographic equipments/tools/ materials b) Photography of the exhibits examined in the laboratory, invisible & visible photography, video photography, editing of the photo real & Xerox copies etc., making of Audio/Video tapes, CDs/VCDs/DVDs for all formats.	Working Procedure Manual CFSL-CBI-PHOTO-49.	Qualitative

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V.	CHEMISTRY			
	Chemistry Division			
1.	Analysis of following Narcotic substances: Morphine/Heroin/ Opium	Colour Test, T.L.C. HPTLC, GC, GC-MS, UV-VIS Spectro-photo-metry	As per Working Procedure Manual on Narcotics CFSL-CBI-ND-CHEM-45 Section-3.5.1 to 3.6.19. Method for testing HEROIN Manual for use by national narcotics laboratories, United Nations, 1986 ST/NAR/6 Page 15-16, Page 19-20. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 3.5.1 to 3.5.5.4	Qualitative
2.	Cannabis	Macroscopic tests, Microscopic tests, Colour tests, T.L.C.	Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 3.5.1 to 3.5.5.4. As per Working Procedure Manual on Narcotics CFSL-CBI- ND-CHEM-45 Section-4.5.1 to 4.6.13	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Cocaine	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectro- photometry	Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 5.5.1 to 5.5.5. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 5.5.1 to 5.5.5. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 6.5.1 to 6.5.5.3.	Qualitative
4.	Amphetamines	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectro- photometry.	Recommended Methods for testing COCAINE Manual for use by National Narcotics laboratories, United Nations, 1986 ST/NAR/7 Page 16-17, Page 21- 23. As per Working Procedure Manual on Narcotics CFSL-CBI- ND-CHEM-45 Section-7.5.1 to 7.6.6. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 8.5.1 to 8.5.5.3.	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Recommended Methods for testing AMPHETAMINE AND METHAMPHETAMINE Manual for use by National Narcotics laboratories, United Nations, 1986 ST/NAR/9 Page16-17, Page18-20	
5.	Benzodiazepines	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectro- photometry.	As per Working Procedure Manual on Narcotics CFSL-CBI- ND-CHEM-45 Section-9.5.1 to 9.6.2. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 10.5.1 to 10.5.4.3.	Qualitative
6.	Methaqualone	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectro- photometry	As per Working Procedure Manual on Narcotics CFSL-CBI- ND-CHEM-45 Section-6.5.1 to 6.6.1. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 7.5.1 to 7.5.5.3.	Qualitative
7.	Barbiturates	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectro- photometry.	As per Working Procedure Manual on Narcotics CFSL-CBI- ND-CHEM-45 Section 8.5.1 to 8.6.9. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 9.5.1 to 9.5.5.3.	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Mescaline in Cactus	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectrophotometry.	As per Working Procedure Manual on Narcotics CFSL-CBI-ND-CHEM-45 Section-10.5.1 to 10.6.2. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 11.5.1 to 11.5.5.3.	Qualitative
9.	Psilocin, Psilocybin in Mushroom	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectrophotometry	As per Working Procedure Manual on Narcotics CFSL-CBI-ND-CHEM-45 Section-10.5.1 to 10.6.2. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 12.5.1 to 12.5.6.3.	Qualitative
10.	LSD	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectrophotometry	As per Working Procedure Manual on Narcotics CFSL-CBI-ND-CHEM-45 Section-11.5.1 to 11.6.3. Working Procedure Manual on Narcotics & Psychotropic Substances 2005, Directorate of Forensic Science, New Delhi Section 13.5.1 to 13.5.5.3.	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
11.	Phencyclidine	Colour tests, TLC, HPTLC, GC, GC-MS, UV-VIS, Spectrophotometry	As per Clarke's analysis of Drugs and Poisons 3 rd edition Pharmaceutical Press 2004	Qualitative
13.	Bribe/Trap cases Phenolphthalein and carbonates of sodium	Chemical/ Colour tests T.L.C, HPTLC	As per Working Procedure Manual on Narcotics CFSL-CBI-ND-CHEM-45 Section-5.7.1. Indian Police Journal, Vol XXVI(2), Oct.-Dec.1979, page 13-16. Journal of Indian Academy of Forensic Sciences, 1978, Vol.17, No.2, page 92 Proceedings XVIII all India Forensic Science onference, 2007, page 541-554	Qualitative
14.	Petroleum product examination, Petrol, Diesel, kerosene oil, LDO	Density GC	Laboratory Procedure Manual on Petroleum Products (2005), Directorate of Forensic Science, New Delhi	Qualitative
15.	Arson cases examination	GC	As per Working Procedure Manual of Chemistry CFSL-CBI-ND-CHEM-43 Section-3.7.2, 3.7.3, 3.8.1, 3.11, 3.11.1. Laboratory Procedure Manual on Petroleum Products (2005) Directorate of Forensic Science, New Delhi. International Crime Police Review; 251 page 216-221.	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
16.	Chemical analysis of corrosive substances(Chlorides, Sulphates, Nitrates, etc.)	Chemical Tests	As per Working Procedure Manual of Chemistry CFSL-CBI- ND-CHEM-43 Section-4. Vogel's Text book of Quantitative Inorganic Analysis 4 th edition 1978, page 224.	Qualitative
VI. TOXICOLOGY				
Toxicology Division				
1.	Biological Material for detection of Volatile poisons Pesticides Drugs Metallic poisons	Colour tests T.L.C, HPTLC, GC, GC-MS, UV-VIS Spectrophotometry	As per Working Procedure Manual of Forensic Toxicology CFSL-CBI-ND-CHEM-44. Laboratory Procedure Manual, Forensic Toxicology (2005), Directorate of Forensic Science, New Delhi. Analytical Toxicology by S.N. Tiwari, 1980	Qualitative
VII. QUESTIONED DOCUMENTS				
Document Division				
1.	Handwriting/ signature examination	Examination of general & individual handwriting characteristics and study of natural variations	Working Procedure Manual CFSL-CBI-ND-DOC-46 PAGE No.11-17	Qualitative
2.	Decipherment of erased/obliterated/ obscured/ interpolated writings	Examination of inks used in writing/obliteration/obscured writing and the instrument used in writing/ obscuring etc.	Working Procedure Manual CFSL-CBI-ND-DOC -46 PAGE No. 42-51	Qualitative

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3.	Examination of typed scripts/ printed scripts/ computer scripts, Xerox copies and their identification	Examination of defects due to wear and tear of the machines	Working Procedure Manual CFSL-CBI-ND-DOC-46 PAGE No.17-28	Qualitative
4.	Examination of counterfeit currency	Study of covert/overt features, width of thread, thickness of thread, sheet size etc.	Working Procedure Manual CFSL-CBI-ND-DOC-46 PAGE No.57-60	Qualitative
5.	Examination/ comparison of paper including stamp/security/lega l documents/ passport vis a vis genuine documents/ travel documents/ credit debit cards	Study of the physical and individual features observed in the genuine currency, counterfeit stamps, security features including colors, size, weight and printing defects	WORKING PROCEDURE MANUAL CFSL-CBI-ND-DOC-46 PAGE No.39-41	Qualitative
6.	Examination of sequence of strokes.	Physical/ Chemical examination as per requirement	Working Procedure Manual CFSL-CBI-ND-DOC-46 Page No.30-32	Qualitative
7.	Examination of indented writings	By applying different physical tests	Working Procedure Manual CFSL-CBI-ND-DOC -46 Page No. 52-54	Qualitative

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8.	Reconstruction of torn documents and examination	Physical examination of paper, ink and study of handwriting characteristics.	Working Procedure Manual CFSL-CBI-ND-DOC -46 Page No. 33-38	Qualitative
9.	Reconstruction of charred documents and decipherment	Physical/Chemical methods	Working Procedure Manual CFSL-CBI-ND-DOC-46 PAGE No.36-38	Qualitative
10.	Ascertaining of absolute/relative age of ink	Chronological study of water marks, variations in the colour of ink, paper, signature and other related documents	Working Procedure Manual CFSL-CBI-ND-DOC -46 Page No. 47-51	Qualitative
11.	Examination of rubber seal impressions	Examination of general and individual characteristics developed due to wear and tear of the machines	Working Procedure Manual CFSL-CBI-ND-DOC-46 Page No.55-56	Qualitative
12.	Examination of stapler pins/paper/fastener s/clips etc.	Size of the crown/rust mark on the papers fastened/ distance between the holes throughout the fastened tool marks	Working Procedure Manual CFSL-CBI-ND-DOC-46 Page No.33-35	Qualitative
VIII. FINGERPRINTS				
Finger Print Division				
1.	Disputed Documents bearing questioned/admitted finger-prints for comparison with specimen finger- prints	The finger prints are marked/ stamped and send to Photo and Division for 3X photographic enlargement	Comparison of both questioned and specimen finger-prints. If the prints are identical, eight of them have been marked in one of the print with projected red lines along with their detailed description.	Identification/ comparison of fingerprints or otherwise.

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2.	Crime Articles for development of chance prints by using dusting method/ by using Ninhydrin Technique and comparison with specimen/ admitted fingerprints.	The fingerprints are marked/ stamped and send to Photo Division for 3X photographic enlargement	Comparison of both chance prints and specimen finger-prints. If the prints are identical eight of them have been marked in one of the print with projected red lines along with their detailed description.	Identification/ comparison of fingerprints or otherwise
IX. FORENSIC PSYCHOLOGY				
Forensic Psychology Division				
1.	Human beings	Psychological tests and polygraph tests for detection of deception / truth verification.	Working Procedure Manual CFSL-CBI-LD-48.	Minimum 3 administration of test questionnaire(s) on the subject
X. PHYSICS				
Physics Division				
1.	Tool marks/ Electric cable / wires	Photography, Tracing, foreign material examination, Taking test impression	As Per working procedure Manual CFSL (CBI)-PHY	Qualitative
2.	Glass	Physical examination, Measurement of Refractive Index, Density or specific gravity comparison	As Per working procedure Manual CFSL (CBI)-PHY	Quantitative Quantitative (1.46 to 1.55-RI Range)

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3.	Paint/Fibre/ Fabrics	Physical Examination	As Per working procedure Manual CFSL (CBI)-PHY	Qualitative
4.	Decipher-ment of tempered chassis & engine firearms etc.	Mechanical itching/ Chemical itching	As Per working procedure Manual CFSL (CBI)-PHY	Qualitative
5.	Soil	Physical Examination, Density distribution of soil particle	As Per working procedure Manual CFSL (CBI)-PHY	Qualitative
6.	Voice Analysis & Audio Authentication	Auditory and spectrographic examination, wave-form Analysis	As Per working procedure Manual CFSL (CBI)-PHY	Qualitative
XI.	SEROLOGY			
	Serology Division			
1.	Fresh Blood	Immunological Tests for A B O & Rh-Grouping.	Working Procedure Manual on Forensic Serology, CFSL-CBI- ND-SERO-51 {4.1.1 & 4.1.2 pg: 9-11 }	Qualitative
2.	Blood/ Blood Stains	Absorption & Elution Technique for detection of ABO groups.	Working Procedure Manual on Forensic Serology, CFSL-CBI- ND-SERO-51 {3.1, 3.3 & 4.5.3 pg: 9-13 }	Qualitative

-X-X-X-X-X-X-X-X-X-X-X-X-